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ABSTRACT

This annotated bibliography from the Materials Review and Evaluation Services lists reviewed and evaluated instructional media appropriate for school media centers in the area of mathematics. Educators should bear in mind that materials included in this list were selected from those which publishers chose to submit for evaluation and may assume that materials for purchase not appearing on the list either were not submitted for evaluation or received unfavorable reviews. At the end of this bibliography may be found an unannotated list of materials which have had favorable reviews in reliable reviewing sources. Items are listed by type of media--books, workbooks, 16mm films, sound filmstrips, kits, tests, and audiocassettes. Each entry includes author, title, publisher or producer, date of production, cost, and grade level. (Author/RAO)

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ADVISORY LIST OF INSTRUCTIONAL MEDIA

FOR

MATHEMATICS

North Carolina State Department of Public Instruction
Division of Educational Media
Raleigh, North Carolina
Fall 1978

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Materials Review and Evaluation Services
Division of Educational Media
State Department of Public Instruction

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Fall 1978

ADVISORY LIST OF INSTRUCTIONAL MEDIA

FOR

MATHEMATICS

This bibliography includes instructional media appropriate to the Mathematics program in the schools. The items are listed by type of media. The order of the listing is as follows:

activity cards
art prints
books
books (for teacher use)
books (reference)
books (supplementary texts)
books with recordings
books (workbooks)
calendars
charts
dictionaries
duplicating masters
film loops (silent)
film loops (sound)
films (16mm)
filmstrips (silent)
filmstrips (sound)
games
globes
kits
manipulative devices
maps
measuring tapes
microforms
mini-units
models
periodicals
pictures
posters
programmed materials
puzzles
realia
recordings (cassette tapes)
recordings (disc)
recordings (reel-to-reel tapes)
reprints
shortstrips
slide sets (2"x2")
slide sets (sound)
study prints
tests
transparencies
videotapes

The absence from this list of a given type of media indicates that no media of that type were reviewed or that none were deemed worthy of being called to the attention of schools. The name of a school administrative unit appearing after an annotation indicates that educators in that school system reviewed the item annotated and submitted the information for inclusion on the ADVISORY LISTS. Occasionally such items may not appear on display at the Materials Review and Evaluation Center in Raleigh. Educators should bear in mind that materials on this list were selected from those which publishers chose to submit for evaluation and may assume that materials available for purchase not appearing on the list either were not submitted for evaluation or received unfavorable reviews. Information about negative reviews, which do not appear on this bibliography, can be obtained by writing or calling the Materials Review and Evaluation Center. At the end of the annotated lists of print and audiovisual materials may be found unannotated lists of materials which have had favorable reviews in reliable reviewing sources.

In some cases prices were not available. Prices shown are those quoted by publishers and producers. Prices quoted do not include postage and are subject to change.

All items included on this bibliography except 16mm films and some items suggested for inclusion by local school administrative units are displayed in the Materials Review and Evaluation Center in Raleigh. Information may be obtained by calling (919) 733-3929.

PLEASE DO NOT ORDER ITEMS ON THIS LIST FROM THE MATERIALS REVIEW AND EVALUATION CENTER OR FROM THE DIVISION OF TEXTBOOKS. Sources of the items are listed on the DIRECTORY OF PUBLISHERS AND PRODUCERS FOR THE FALL 1978 ADVISORY LISTS OF INSTRUCTIONAL MEDIA, a separate publication accompanying the complete set of ADVISORY LISTS OF INSTRUCTIONAL MEDIA. An abbreviated or code name for the publisher/producer appearing in the bibliographic entry on this list appears in the DIRECTORY, where the complete address follows the code name.

Schools may use this list to aid in selection of materials but are in no way restricted to purchasing items on this list.

Barr, Stephen. PUZZLEQUIZ: WIT TWISTERS, BRAIN TEASERS, RIDDLES, PUZZLES, AND TOUGH QUESTIONS. Crowell, 1978. unp. $8.49. Grades 7-12

Interesting collection of riddles, puzzles, brainteasers, to challenge inquisitive minds; examples range from ridiculous to esoteric; appealing to students of varying abilities, creating interest and providing enrichment in math and other classes

Fixx, James F. SOLVE IT! A PERPLEXING PROFUSION OF PUZZLES. Doubleday, 1978. 94 p. $5.95. Grades 5-12

Collection of puzzles for gifted students from tricky examples to those demanding mental dexterity; provides a four-step problem-solving process and a list of 10 rules to help students organize their thoughts logically; sufficient variety in puzzles to fascinate students who enjoy solving puzzles; helpful diagrams and answers

Froman, Robert. THE GREATEST GUESSING GAME: A BOOK ABOUT DIVIDING. Crowell, 1978. 33 p. $5.79. Grades 3-5

Approaches the dividing process as a fun activity, emphasizing its thinking aspect rather than the division algorithm; imaginative, whimsical black-white-green illustrations will delight and amuse; good resource for math collection or media center learning labs

Kelly, Gerard W. METRIC SYSTEM SIMPLIFIED. Rev. ed. Sterling, 1976. 96 p. $4.99. Grades 10-12

Brief summary of metric system providing background on methods of measurement, U.S. system of weights and measures, metric system, conversion charts, and examples of conversion figures dealing with cars and kitchens; recommended for use in media center rather than classroom

Lamb, Geoffrey. PENCIL AND PAPER TRICKS. Nelson, 1977. 80 p. $6.50. Grades 7-12

Twenty-nine number puzzles and tricks for students who enjoy this type of game; attractive format with clear, dark type and generous margins but very few illustrations; offers few mathematical explanations but offers interesting ideas to challenge students

Madison, Arnold, and David L. Drotar. POCKET CALCULATORS: HOW TO USE AND ENJOY THEM. Nelson, 1978. 144 p. $6.95. Grades 7-12

Interesting information on development, inner workings, and operation of pocket calculator; includes suggested activities and exercises; since the calculator industry is changing so rapidly, some information is outdated

Morgenstern, Steve. METRIC PUZZLES, TRICKS AND GAMES. Sterling, 1978. 128 p. $4.39. Grades 5-9

Interesting collection of games, riddles, and activities related to the metric system with such intriguing titles as "Metric Monster Game," "Spy Stuff," "Metric Maxims," "Metric Olympics," all with answers; explains the why, what, how, and when of the metric transition in a brief but clear way; could certainly enliven a unit on the topic

Pallas, Norvin. CALCULATOR PUZZLES, TRICKS AND GAMES. Sterling, 1976. 96 p. $4.39. Grades 5-12

Provides varied challenges for students who understand the potential of calculators--games, tricky puzzles, and problems dealing with taxes, family finance, "car-ful" calculations; answers with explanations on derivation of some of them included; explains important features to look for when selecting a calculator; best used as supplementary book to provide problem-solving opportunities

Sitomer, Mindel and Harry. ZERO IS NOT NOTHING. Crowell, 1978. 34 p. $5.79. Grades 4-6

Clear, simple explanation of the functions of zero in the number world--as a starting place, separation point, and a break-even point; also provides its history and use as a place holder; numerous diagrams and drawings (black and white) add interest and clarity; valuable addition to classroom collection or math section in media center

Smullyan, Raymond M. WHAT IS THE NAME OF THIS BOOK? THE RIDDLE OF DRACULA AND OTHER LOGICAL PUZZLES. Prentice, 1978. 241 p. $8.95. Grades 9-12

Delightful collection of puzzles and riddles to develop logical thinking and challenge inquisitive minds; offers a variety of problems to be solved--mysteries, weird tales, subtle teasers; useful to enrich high school math classes of varying ability levels if materials are carefully selected; fortunately, solutions are supplied

Summers, George J. MIND TEASERS: LOGIC PUZZLES AND GAMES OF DEDUCTION. Sterling, 1977. 128 p. $4.39. Grades 10-12

Well-organized collection of problems and puzzles in logic to challenge and entertain talented math students; includes clues, explanations, solutions; attractive format--variety of print, generous spacing and margins, black-and-white line drawings; too esoteric for most students but appealing enrichment for gifted students, especially in geometry; excellent teacher resource book

Books in a Series

Nentl, Jerolyn Ann. METRICS AMERICA. Crestwood, 1976. (Available from Western.) each 31 p. each $4.95. Grades 4-6

Titles: THE METRIC SYSTEM IS; THE METER IS; THE LITER IS; THE GRAM IS; THE CELSIUS THERMOMETER IS

Clearly explains the metric system and defines units for measuring through meaningful illustrations and descriptive text; can be used effectively for enrichment and reinforcement; attractive format--sharp, variated print, generous margins, colorful photographs and diagrams, strong bright covers

BOOKS (SUPPLEMENTARY TEXTS)

Bolster, L. Carey, et al. CONSUMER AND CAREER MATHEMATICS. Scott, 1978. 454 p. $7.47. teacher's ed. $8.76. Consumer Forms and Problems (duplicating masters) $18. solution key $2.19. tests (duplicating masters) $10.20. Grades 9-12

Well-organized, attractive text of six excellent units (three chapters each) on skills needed in everyday life: first unit designed as review or reinforcement of basic skills in whole numbers (+, -, x, ÷), decimals and other fractions; remaining Units 2-6 contain consumer and career lessons on topics such as income, banking, credit, automobile ownership, renting and buying a home, income tax, buying food, budgeting; each chapter provides review exercises keyed to specific lessons (answers in back of student text) and a chapter test; teacher's edition contains student text with answers and notes overprinted in contrasting color, explains organization of both texts, offers time schedule, lesson notes, enrichment projects, and a sample minimum competency test; relevant career information examples, exercises; good black-and-white photographs showing young people and adults in realistic situations; coordinated materials include duplicating masters of tests, records, forms; intended as second text in a two-book sequential but independent course (see MATHEMATICS IN LIFE)

Bolster, L. Carey, and H. Douglas Woodburn. MATHEMATICS IN LIFE: SKILLS, CONSUMER AND CAREER APPLICATIONS. Scott, 1977. 448 p. $7.47. teacher's ed. $8.76. solution key $2.19. tests and record forms (duplicating masters) $23.10. Grades 8-9

Attractive contemporary mathematics textbook designed for maximum student interest; covers basic operations (+, -, x, ÷) of whole numbers, decimals, fractions; also covers ratio, proportion, percentage, statistics, probability, metric measurement, geometric formulas, algebraic equations, and graphing; practical, familiar content of examples reinforces skills--e.g., calorie and carbohydrate tables, cost of auto fuel, buying on credit, borrowing money; each of six units contains three chapters focusing on consumer and career skills with pre- and post quizzes on each skill and a chapter test; career-oriented format--heavy equipment operators shown applying formulas, assemblers figuring metric units, astronomers using integers; black-and-white on-site photographs of various occupations help clarify, extend content; duplicating masters provide tests, forms, records; intended as first book in two-book sequential but independent course of study (see CONSUMER AND CAREER MATHEMATICS)

Stein, Edwin I. FIRST COURSE IN FUNDAMENTALS OF MATHEMATICS. Allyn, 1978. 499 p. $11.60. teacher's guide $1.80 paper. Grades 9-10

Presents fundamental math in traditional but useful way, covering fractions, decimals, graphs, statistics, consumer math, beginning algebra and geometry, more; provides adequate drill and practice in computational skills; each chapter includes review exercises, an inventory test, and an achievement test; attractive format--clear, variated print with color highlights, headings and numerous charts, tables, diagrams set off in green, generous spacing; includes table of squares and square roots, metric and customary measurements, index; guide suggests additional activities and supplies answers to exercises, tests

Stein, Edwin I. SECOND COURSE IN FUNDAMENTALS OF MATHEMATICS. Allyn, 1978. 559 p. $12. teacher's guide $1.80 paper. Grades 10-12

Reviews material in Stein's FIRST COURSE IN FUNDAMENTALS OF MATHEMATICS (see annotation), then further develops concepts of metric and customary measurement, algebra, statistics, probability, logic, geometry, more; includes section emphasizing math skills in daily life--figuring pay deductions, borrowing money, installment buying, purchasing insurance, renting/buying a house, saving money, other; devotes several chapters to math skills in certain careers, such as aviation, industry (brickwork, paperhanging, roofing, plastering), many more; numerous exercises and tests--pre- and post-; attractive format--clear, variated print with color highlights, headings and numerous charts, tables, diagrams set off in green, generous spacing; includes table of squares and square roots, metric and customary measurements, index; guide suggests additional activities and supplies answers to exercises, tests

Thompson, Linda L. CONSUMER MATHEMATICS. Glencoe, 1978. 470 p. $8.22. teacher's manual $2.70. workbook $2.97. solutions manual $2.25. Grades 10-12

Contains most topics commonly covered in consumer math courses--income, personal finance. buying consumer goods, borrowing money, investments, health care, transportation, housing, income tax; offers interesting activities, some involving use of flow charts, pocket calculators, free materials (forms); teacher's manual offers general comments on teaching each topic, follow-up activities, sample test questions/answers; companion workbook available

BOOKS (WORKBOOKS)

Friedland, Joyce, and Irene Gross. READING FOR MATHEMATICS: A WORKTEXT TO IMPROVE READING SKILLS IN THE CONTENT AREA OF MATHEMATICS. Richards, 1977. 86 p. $1.95 paper. teacher's key $3. Grades 4-12

Fifteen units designed to help students recognize and understand vocabulary use in basic mathematics--e.g., "divide," "separate," "quotient," "times," "double," "equivalent," "numerator," "denominator"; each unit lists all vocabulary words to be studied, defines each word, uses it in sentences, and provides math problems applying the term; poor pen-and-ink illustrations in otherwise pleasing format--generous spacing, clear print; useful supplementary material

Overholt, James L. DR. JIM'S ELEMENTARY MATH PRESCRIPTIONS. Goodyear, 1978. 250 p. $8.95. paper. Teacher use

Collection of over 250 activities grouped by math concept and/or skills--e.g., numbers cover counting, place value, addition, subtraction, multiplication, division, problem solving; suggested grade level, purposes, necessary preparation, directions, and variations provided for each activity; reproducible worksheets and learning aids in appendix; good addition to any teacher's collection of professional materials; K-8 math content

Souviney, Randall J., et al. MATHMATTERS: DEVELOPING COMPUTATIONAL SKILLS WITH DEVELOPMENTAL ACTIVITY SEQUENCES. Goodyear, 1978. 303 p. $8.95 paper. Teacher use

Activities, materials, and diagnostic materials for teachers to use in presenting math concepts in text translating much of Piaget's research into practice; suggestions given for teaching students to perform operations with whole numbers, fractions, decimals, and percents; emphasis on using materials appropriate for

MATHMATTERS. (Cont'd)

students' level of maturity; careful outline of steps (concrete to abstract) in teaching elementary school mathematics

Usher, Michael A., and Robert Bormuth. EXPERIENCING LIFE THROUGH MATHEMATICS. VOLUMES I AND II. Rev. eds. Pawnee, 1978. each 122 p. each $2.94 paper. teacher's editions each $4.50 paper. Grades 9-12

Series of short units providing opportunities to apply math in many settings and situations confronting students--buying a car, budgeting, banking, many more--followed by related problems; teacher's editions include inventory tests on math skills useful to pinpoint student difficulties or to test improvement; each unit includes notes for teacher use, timetable, objectives, and list of math concepts and career topics; practical, "high-interest" situations making up examples might motivate students to master required math skills

Books (Workbooks) in a Series

Averett, Dorothy M., et al. THINK METRIC. Sadlier/Oxford, 1976. each 64 p. each $1.26 paper. each guide $2.19. Grades 4-9
Titles: LEVEL RED; LEVEL BLUE; LEVEL GREEN

Explains basic units of measurement in the metric system, providing a variety of practical activities to facilitate usage--following recipes and maps, reading labels, measuring lengths and thicknesses, more; stresses comparisons, not conversion

SKIL-PAC 4: PRIMARY MATH ACTIVITIES. Prentice, 1976. $29.50. Grades K-3
Titles: FUN AND GAMES WITH MATHEMATICS/PRIMARY. 107 p.; MORE FUN AND GAMES WITH MATHEMATICS/PRIMARY. 113 p.; CONTEMPORARY MATH SHADE-INS/ PRIMARY. 52 p.; DICE-A-MATICS/PRIMARY. 64 p.; PENNIES, NICKELS & DIMES. 46 p.; DOT TO DOT. 40 p.

Offers a variety of games and activities to supplement, enrich, and enliven the primary math program; provides drill and practice in an interesting, entertaining way through puzzles, shade-ins, other "high-interest" approaches

Taylor, Naomi L. THE SADLIER MATHEMATICS PROGRAM: MEASUREMENT. Sadlier/Oxford, 1976. each 65 p. each $1.26 paper. teacher's editions each $2.19 paper. Grades 3-9
Titles: LEVEL BLUE; LEVEL GREEN; LEVEL ORANGE; LEVEL OLIVE

Uses hands-on approach to teach measurement strand of mathematics, starting with primitive units and presenting customary and metric measure separately, along with money, time, others; excellent student activities, some requiring easily obtained articles and materials

Taylor, Naomi L. THE SADLIER MATHEMATICS PROGRAM: WHOLE NUMBERS. ESTIMATING AND COMPUTING SKILLS. Sadlier/Oxford, 1977. each $1.47 paper. teacher's editions each $2.16 paper. Grades 4-7
Titles: LEVEL BLUE; LEVEL GREEN; LEVEL ORANGE; LEVEL OLIVE

Presents major concepts of elementary math in an interesting, activity-oriented manner; game-like framework, color coding, the use of simple, readily available materials are attractive features; useful for students with difficulties and in need of additional help and practice; thorough treatment of complete topics makes this a useful series

FILMS (16MM)

CLASSIC ANTICS IN MATHEMATICS. 16mm. 12 min. sd. guide color $200. AIMS, 1976. Grades 7-12

Attractive animated film, mixing historical aspects of mathematics with practical application; discusses famous mathematicians--Thales, Archimedes, Charles Babbage--and their contributions; fast-moving; primarily an enrichment tool for classes who have done some elementary work with geometry

JOURNEY TO THE CENTER OF A TRIANGLE. 16mm. 9 min. sd. color $135. Intl. Film Bur., 1977. Grades 9-12

Good summary of some of the characteristics of triangles, in particular the incenter, circumcenter, centroid, and orthocenter; techniques for finding these points will interest geometry students; useful enrichment material in other classes; unnarrated

REGULAR HOMOTOPIES IN THE PLANE: PART I. 16mm. 14 min. sd. color $195. Intl. Film Bur., 1975. Grades 10-12

Computer animation illustrates a regular (closed) curve and the five conditions necessary to produce it; explains and demonstrates "only if" half of Whitney-Graustein Theorum; useful enrichment film in geometry or advanced math class--content is not taught in regular North Carolina high school curriculum

SPACE FILLING CURVES. 16mm. 26 min. sd. color $325. Intl. Film Bur., 1975. Grades 11-12

Artistically presented demonstration showing that only an infinite curve with points which approach limits can fill space; computer animation illustrates each step and narrator provides clear explanation; useful also in art classes

Films (16mm) in a Series

MATHEMATICS FOR PRIMARY. 16mm. sd. guides color $595. each $165. Paramount, 1977. Grades 1-6
Titles: ADDITION. 9 min. MULTIPLICATION. 7 min.
SUBTRACTION. 8 min. DIVISION. 8 min.

Clever animation and delightful puns introduce basic operations (+, -, x, ÷) in whole numbers; good content on addition and subtraction for primary grades, with possibilities for review in intermediate; presents subtraction only as the "take away" concept; information on multiplication and division useful with Grades 2-3 and up; pre-film discussion, film 'stops' to discuss concepts, and follow-up use of manipulatives would enable teachers to get maximum use of films; card example in division is very poor graphically; overall high-quality animation and excellent narration can interest and instruct

FILMSTRIPS (SOUND)

Filmstrips (Sound) in a Series

MATH MOTIVATION. Brady, 1976. 15 color filmstrips, 15 cassette tapes, guides $300. Grades 2-4

Titles:
- RICKY RIDDLE VS. LUCKY LADY
- WHAT DID ELEPHANT FORGET?
- FIFTH CHINESE SON IS MISSING
- THE CASE OF THE MISSING CAKE
- CLICK CLACK LOSES HER BUTTONS
- THE NUMBER EATER
- THE LITTLE ANIMAL LEAGUE TEAM
- SUPERSTITIOUS SAM IS CURED
- BUNKIE BEAR JUMPS ROPE
- HIPPIE HIPPOPOTAMUS SELLS ICE CREAM
- CLARENCE THE COMPUTER
- THE PIRATE'S TREASURE
- THE OLD LADY AND HER PETS
- PARROT COUNTS BACKWARDS
- THE CASE OF THE CLUMSY BANK ROBBER

Miss Click Clack, the teaching machine, helps several appealing characters learn various mathematical skills: numbers, fractions, addition, subtraction, geometry, measurement, multiplication, division; entertaining, 12-14 minute stories, featuring comical cartoon characters, bright colors, amusing dialogue, music, sound effects; teacher's guide contains objectives, summary, activities, script, reproducible student worksheets; high-interest material useful as introductory and follow-up activity in small or large groups

WORKING WITH WORD PROBLEMS IN MATH. Nystrom, 1978. 4 color filmstrips, 4 cassette tapes, 16 copymasters, guide $75. Grades 5-9

Titles: PROBLEMS WITH ADDITION AND SUBTRACTION; PROBLEMS WITH MULTIPLICATION AND DIVISION; PROBLEMS WITH MEASUREMENT, MONEY, AND FRACTIONS; PROBLEMS WITH AREA, TIME, AND REMAINDERS

Problem-solving sequence using pictures of items to help students visualize relationships contained in problems; provides four worksheets for each of four filmstrips, containing same problem-solving structure to apply to several word problems; helpful reinforcement for some students; little thinking actually required of students since the situations are presented and then analyzed for them

KITS

SHOW ME MATH 5. Nasco, 1978. 30 magic slates, 1 set of Show Me questions and answers, 1 set of blank cards for teacher use, guide $18. Grades 4-6

Old-fashioned wax tablets are the magic slates students write on, responding to fractions in the age-old flashcard method; continuous student participation and immediate feedback can add interest and enjoyment to what should always be brief drills lest the technique lose its luster

Kits in a Series

COMPUTATIONAL SKILLS LABORATORIES I AND II. BFA, 1976.

LABORATORY I. 304 math skill cards, 1 student skill book, 3 placement/evaluation test duplicating masters, 3 test answer sheet duplicating masters, 6 student answer sheet duplicating masters, 2 student record sheet duplicating masters, teacher's guide $88. Grades 1-3

COMPUTATIONAL SKILLS LABORATORIES I AND II. (Cont'd)

LABORATORY II. 288 math skill cards, 20 skill card answer books, 1 student skill book, 1 placement test duplicating master, 1 placement test answer sheet duplicating master, 6 student answer sheet duplicating masters, 1 student record sheet duplicating master, teacher's guide $88. Grades 4-6

Sequential program to strengthen understanding and skills in addition, subtraction, multiplication, division, fractions, decimals, percent; pre-test determines area of need; colorful activity cards illustrated with cartoon animal characters provide practice problems (answers on back); student skill books (additional copies may be purchased separately) supply additional exercises; student record sheets provide some management assistance; useful in multi-level classes as a self-pacing, individualized program giving instant feedback; solid, attractively packaged supplementary program

EPC MAINSTREAM SERIES: PROJECT MATH. LEVELS I, II, III. Ed. Prog., 1976, 1977. 3 kits each containing 200 instructional guide cards, 6 copies each of 3 learner activity books, 1 supplementary activity book, verbal problem solving materials, manipulative devices, math concept inventory, individual and class record forms, teacher's guide each $238.50. Grades K-7

Comprehensive math curriculum for handicapped children (defined as children with learning disabilities, social or emotional problems, or the economically disadvantaged) providing a variety of experiences in areas of patterns, sets, geometry, measurement, fractions, numbers; program centers on instructional guides (some 200 in each kit), color-coded and numbered, developing a particular area through several activities on each card; reinforcement and enrichment are supplied in the activity books for student use and in the teacher's supplement; progress record forms and the math concept inventory assist in setting up a management system; brightly colored plastic shapes, story mats, and object cards provide a high degree of student participation and hands-on activities helpful in sharpening verbal problem-solving skills and in challenging imagination; detailed guide offers step-by-step directions and numerous suggestions; materials organized on levels appropriate to specific mental ages and grade curriculum: LEVEL I--mental ages 4-6, content K-1; LEVEL II--mental ages 6-8, content 1-2.5; LEVEL III--mental ages 8-10, content 2.5-4; LEVELS I and II emphasize information processing--e.g., organizing, analyzing, selecting appropriate material toward solutions in verbal problems; problems presented both orally and visually through manipulatives and pictures not requiring reading ability; LEVEL II adds practice in using money; LEVEL III seeks to demonstrate the relevance of math to everyday experiences, such as home safety, traffic patterns, food prices, measuring plant growth, much more; carefully designed program by a team of specialists in special education; well-organized, attractively packaged

LEARNING MATH: 1a AND 1b. McCormick-Mathers, 1976. 2 kits each containing 200 practice cards (in triplicate), 200 answer cards (in triplicate), 5 transparent overlays, 1 abacus, 5 rulers, 4 sets of imitation coins, 30 student record folders, 1 book of diagnostic and progress tests duplicating masters, 1 multitext reference guide, teacher's guide $192. each $99. Grades 1-3

Designed as an individualized program providing drill and practice in basic skills of addition, subtraction, and multiplication (in 1b only), with some exercises in fractions, inequalities, measurement, money, number sequence, place value, problem solving, shapes and patterns, time; diagnostic and progress tests determine strengths, weaknesses and indicate appropriate placement in kit; practice cards provide numerous exercises and answer cards give immediate evaluation; includes some manipulatives for reinforcement; student record folders assist in self-pacing aspect and provide management assistance; reference guide enables teacher to aid students in locating correct materials for specific needs; teacher's guide offers procedural suggestions; helpful supplementary materials in classes of multi-ability levels

MASTERING MATH: 2a, 2b, 2c, 2d. McCormick-Mathers, 1977. 4 kits each containing 200 practice cards (in triplicate), 200 answer cards (in triplicate), 30 student record cards, 29-34 progress tests (reads of 30), 29-34 test answer cards, multitext reference guide, teacher's guide each $99. Grades 7-12

Individualized instruction in basic computation and problem solving provided in newly revised program which updates 1975 edition and makes major changes in content; packaged in four, color-coded boxes containing 200 different practice cards each; each kit contains material covering problem solving and the four basics of addition, subtraction, multiplication, division; other cards deal with decimals, fractions, metric system, and place value; Level 3-6 replaced by 2a, 2b, 2c, 2d; book of spirit masters (pre- and post-tests) replaced by diagnostic tests cards; post-tests correlated with major sections in kit; student record book eliminated totally; conversion table and student mastery record previously on inside covers of student record book is now on cards in kit; Multitext Reference Guide lists basal texts with 1972-1977 copyright; practice cards reassigned to appropriate kits, with additional cards prepared to allow adequate practice in each unit; commutative, associative and distributive laws, factoring, exponentiation, zero and one principal and sets have been added to major sections at appropriate grade levels and expanded to higher levels

TESTS

Howett, Jerry. GED: HOW TO PREPARE FOR THE HIGH SCHOOL EQUIVALENCY EXAMINATION. TEST 5: THE MATHEMATICS TEST. Contemporary Books, 1976. (Available from Braswell.) 359 p. $3 paper. answer booklets each $.25. Grades 11-12

Text explains GED (General Education Development) Test in terms of purpose, structure, test type, scoring standards; consists of three main sections: (1) arithmetic--whole numbers, fractions, decimals, percents, measurements, graphs, (2) algebra--signed numbers, equations, verbal problems, others, (3) geometry--angles, plane and solid figures; provides study aids, glossary, pre- and post-tests, solutions to problems; excellent reference for students motivated to take GED test; other titles in series include THE WRITING SKILLS TEST, THE SCIENCE TEST, THE SOCIAL STUDIES TEST, THE READING SKILLS TEST; answer booklet not submitted for review

RECORDINGS (CASSETTE TAPES)

GRAPHS AND CHARTS SKILL BOX. Troll, 1977. 6 cassette tapes, 30 duplicating masters, guide $64. Grades 7-8

Titles: INTRODUCTION TO GRAPHS AND CHARTS; CHARTS; LINE GRAPHS; BAR GRAPHS; PICTOGRAPHS; CIRCLE GRAPHS

Explains types and uses of graphs and charts, using clear, concise narration, listen-along sheets, and activity sheets (on ditto masters); material does not follow the suggested guide to mathematics curriculum in North Carolina but provides materials which can be used effectively for review or summary